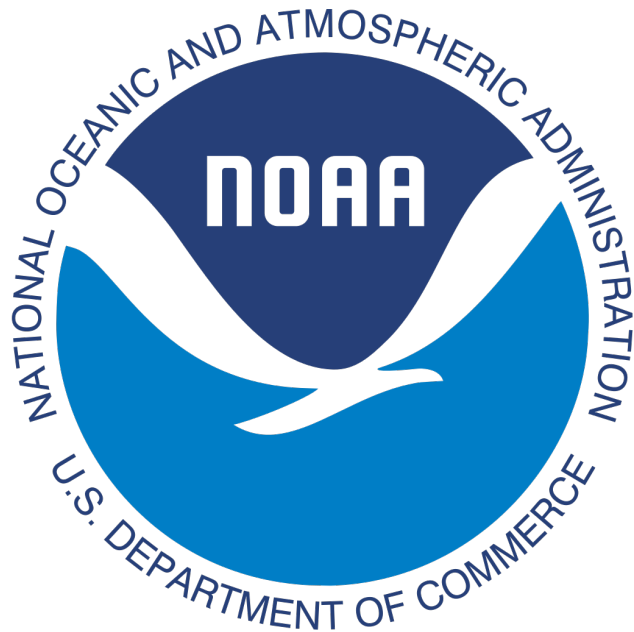


# NATIONAL WEATHER SERVICE UPDATE

Amanda Lee  
NWS Grand Forks



# OVERVIEW

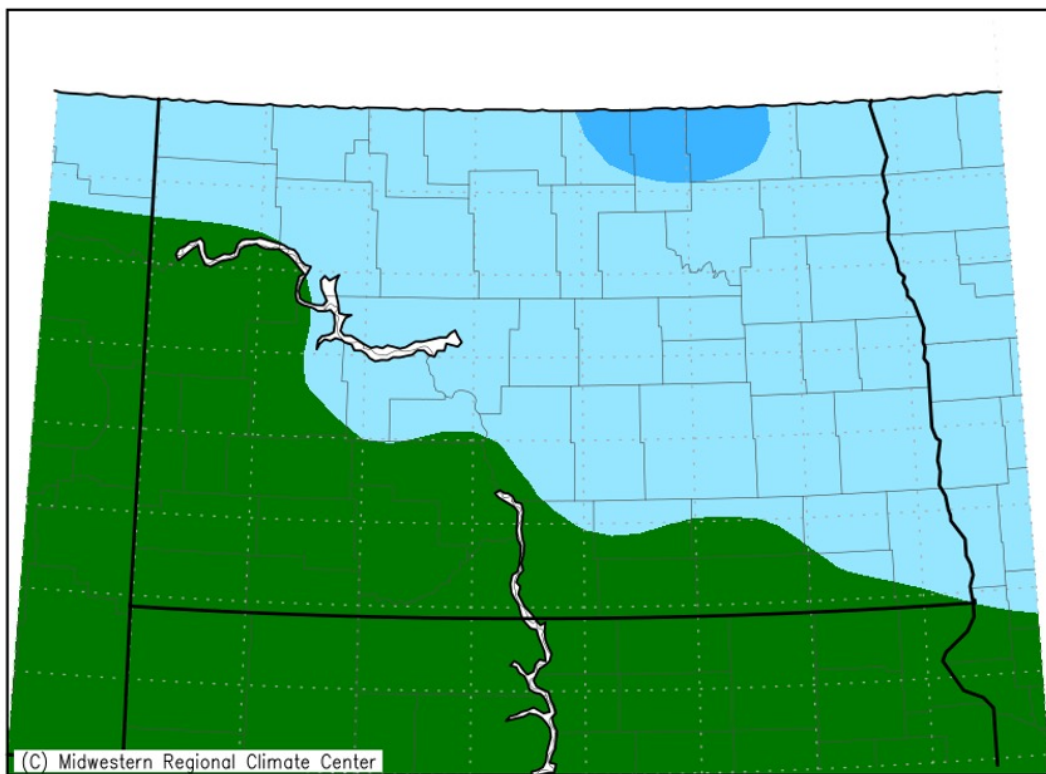
- Fall and Winter Review
- Upcoming Forecast/Climate Outlooks
- Lake Outlook



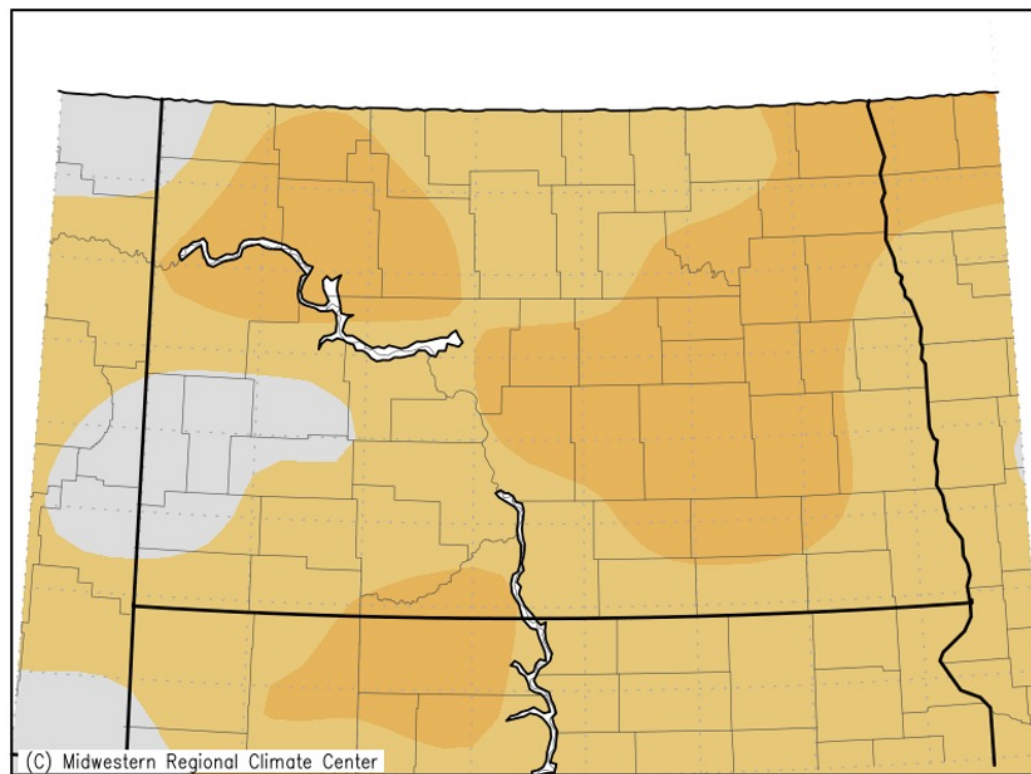
# AVERAGE TEMPERATURE

## (Last Year: October 2020 – Present)

Average Temperature (°F)  
October 1, 2020 to May 9, 2021



Average Temperature (°F): Departure from Mean  
October 1, 2020 to May 9, 2021



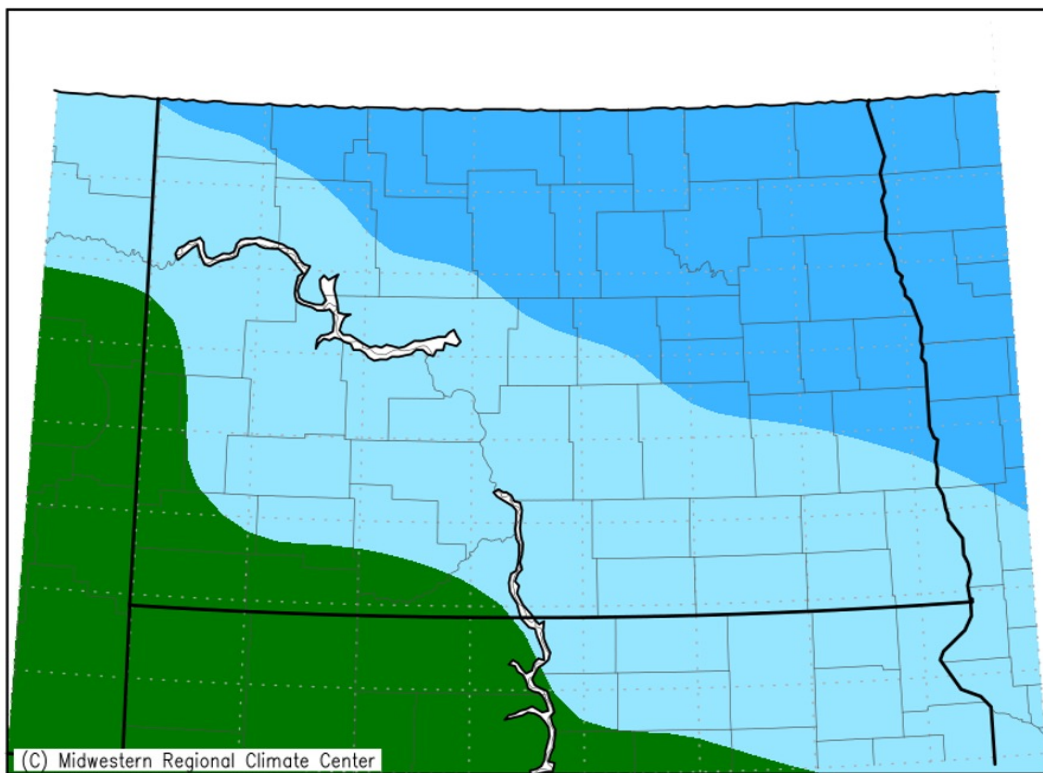
Mean period is 1991–2020.



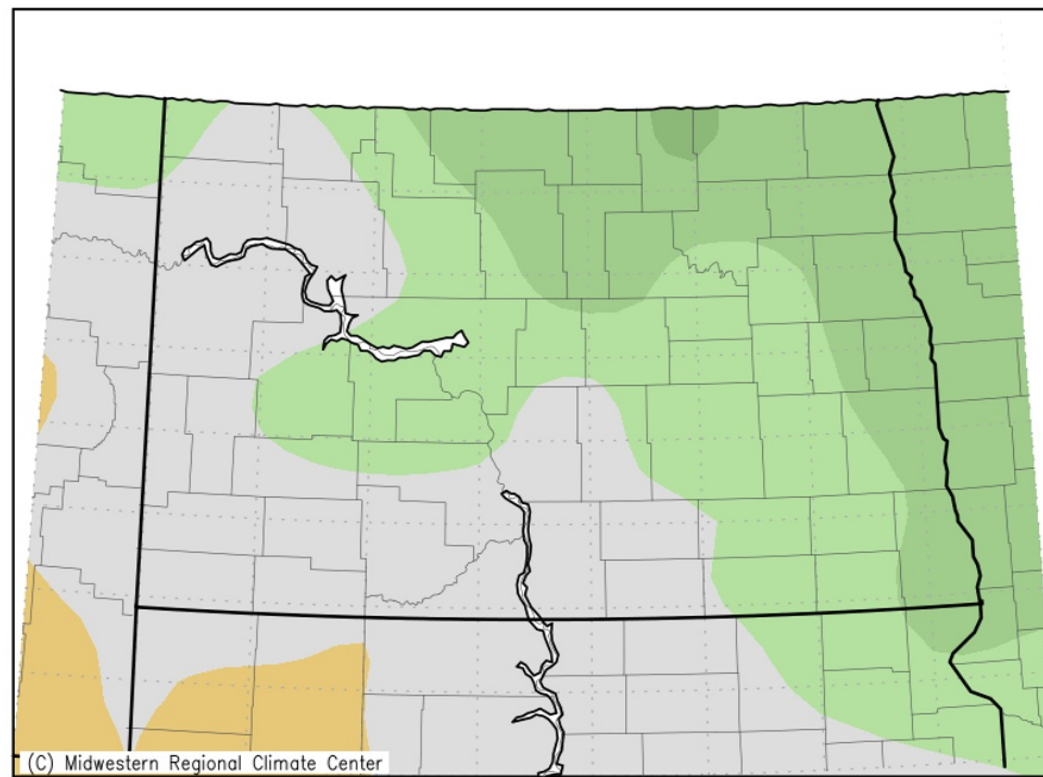
# AVERAGE TEMPERATURE

## (This Year: October 2021 – Present)

Average Temperature (°F)  
October 1, 2021 to May 9, 2022



Average Temperature (°F): Departure from Mean  
October 1, 2021 to May 9, 2022



Mean period is 1991–2020.



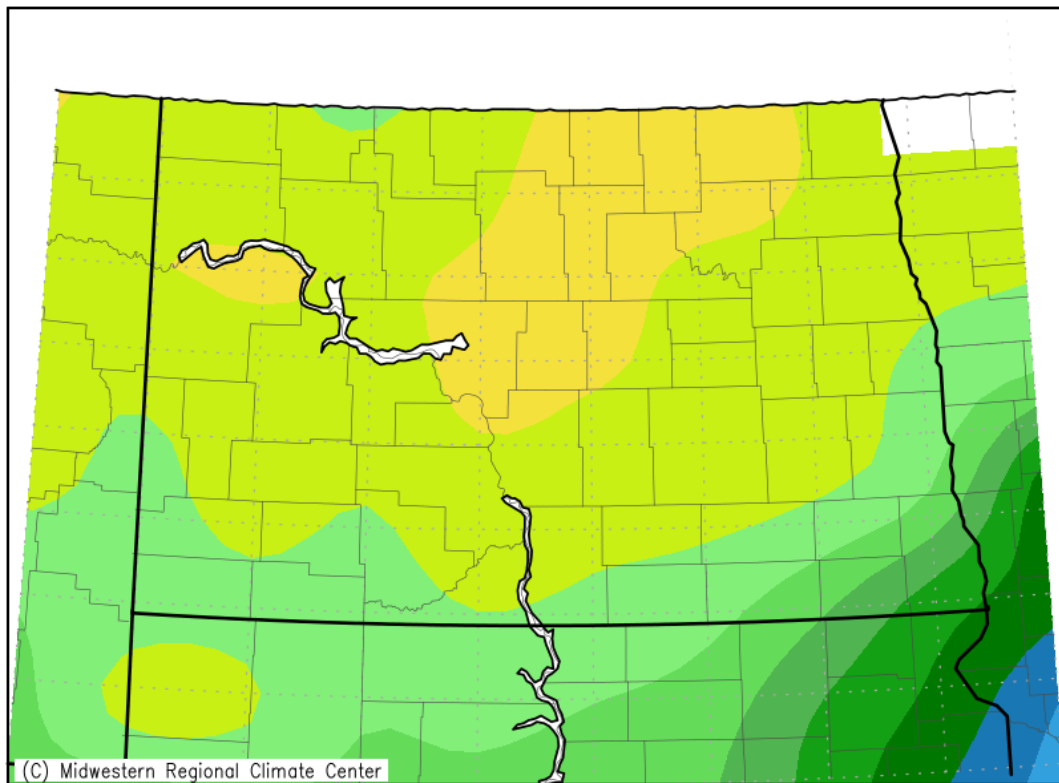




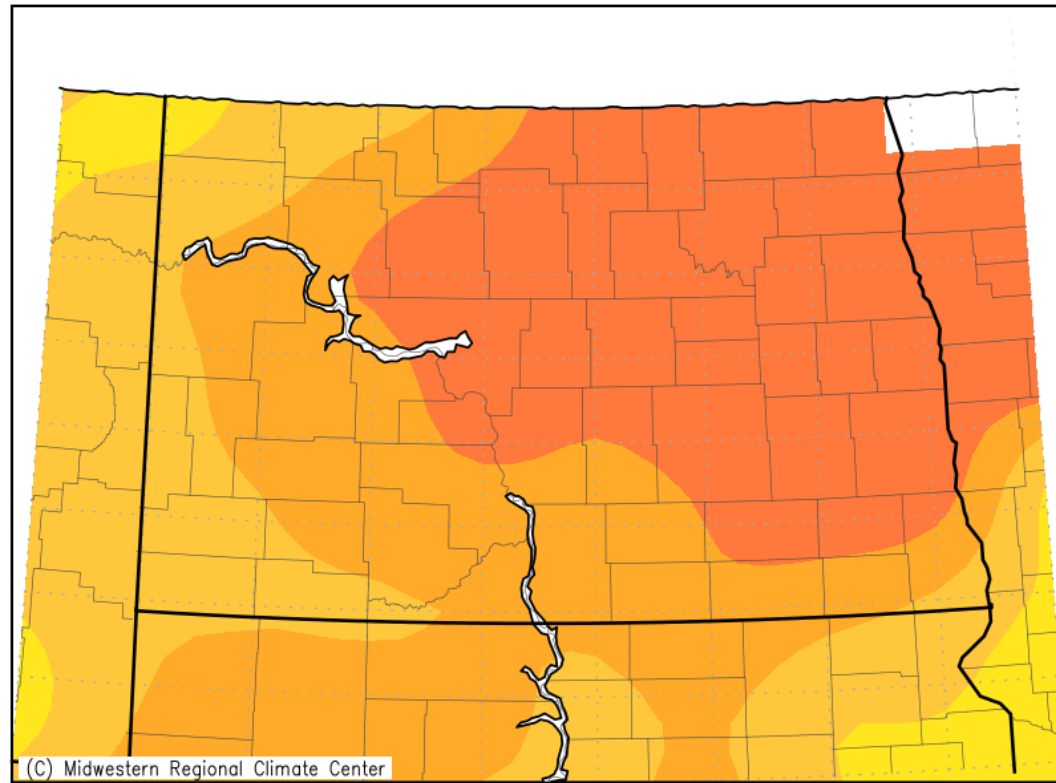
# ACCUMULATED PRECIPITATION

## (Last Year: October 2020 – Present)

Accumulated Precipitation (in)  
October 1, 2020 to May 10, 2021



Accumulated Precipitation (in): Departure from Mean  
October 1, 2020 to May 10, 2021



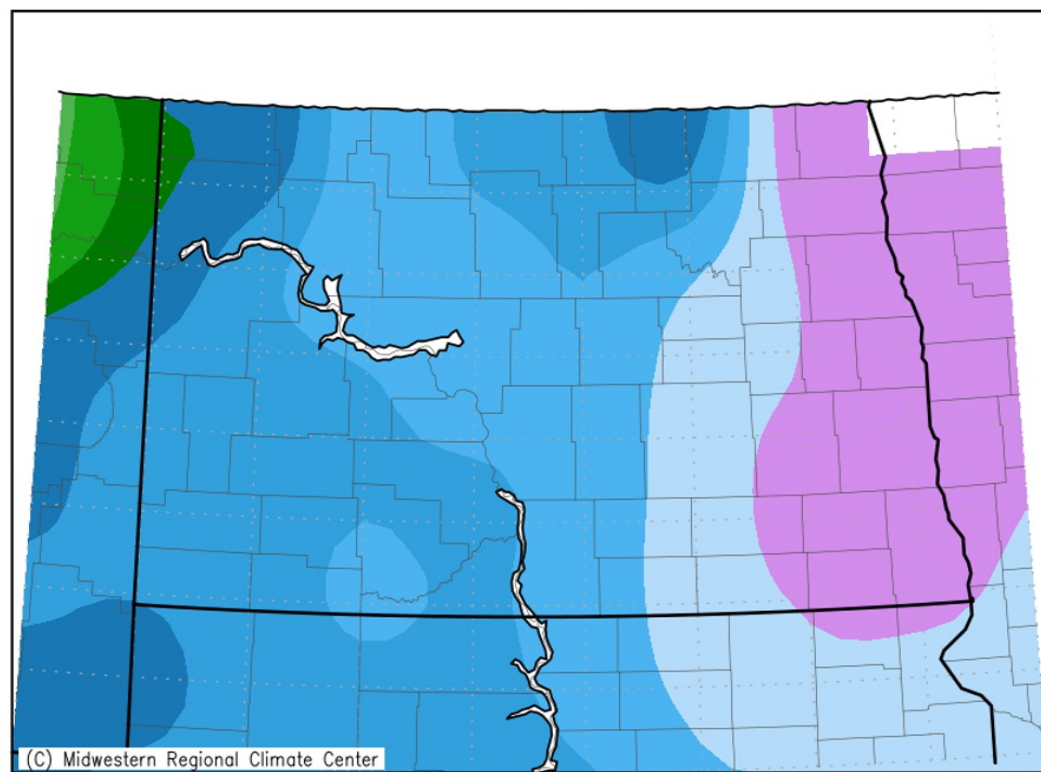
Mean period is 1991–2020.



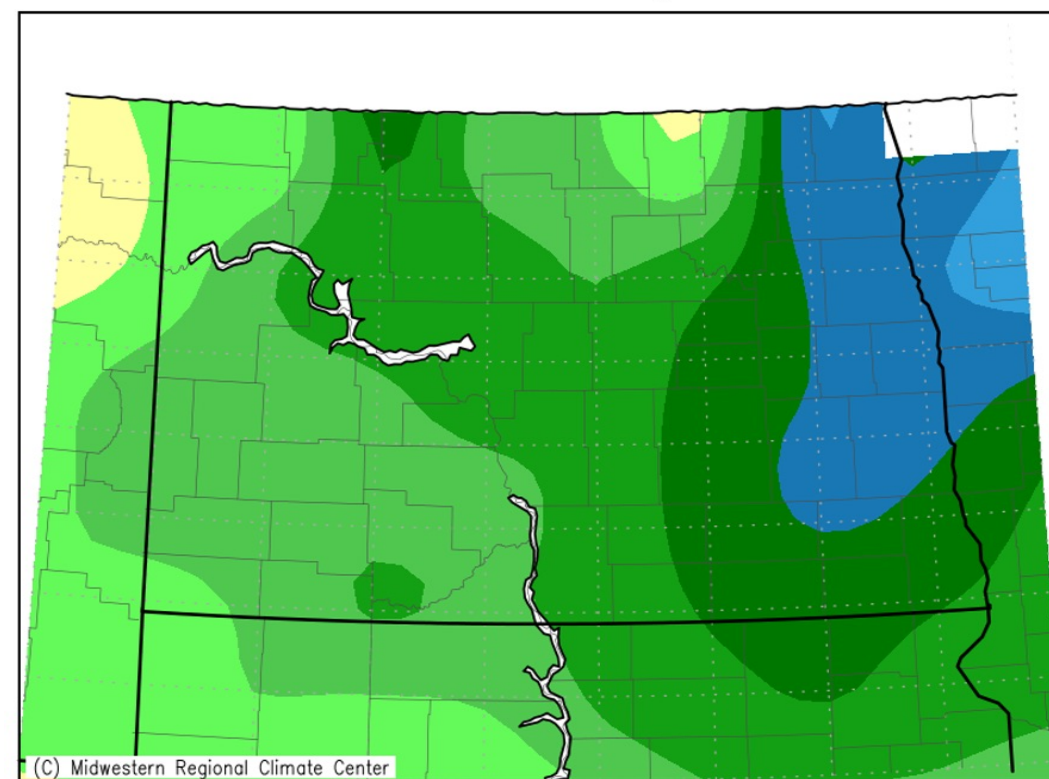


# ACCUMULATED PRECIPITATION (This Year: October 2021 – Present)

Accumulated Precipitation (in)  
October 1, 2021 to May 10, 2022



Accumulated Precipitation (in): Departure from Mean  
October 1, 2021 to May 10, 2022



Mean period is 1991–2020.

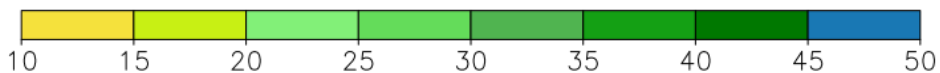
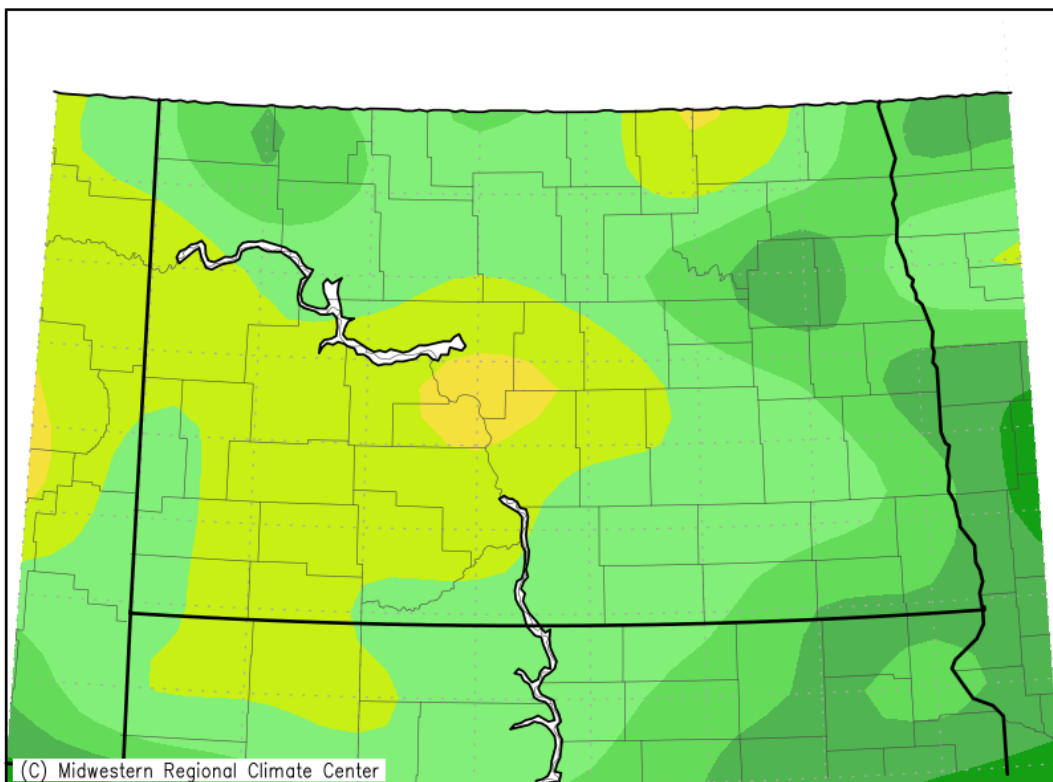




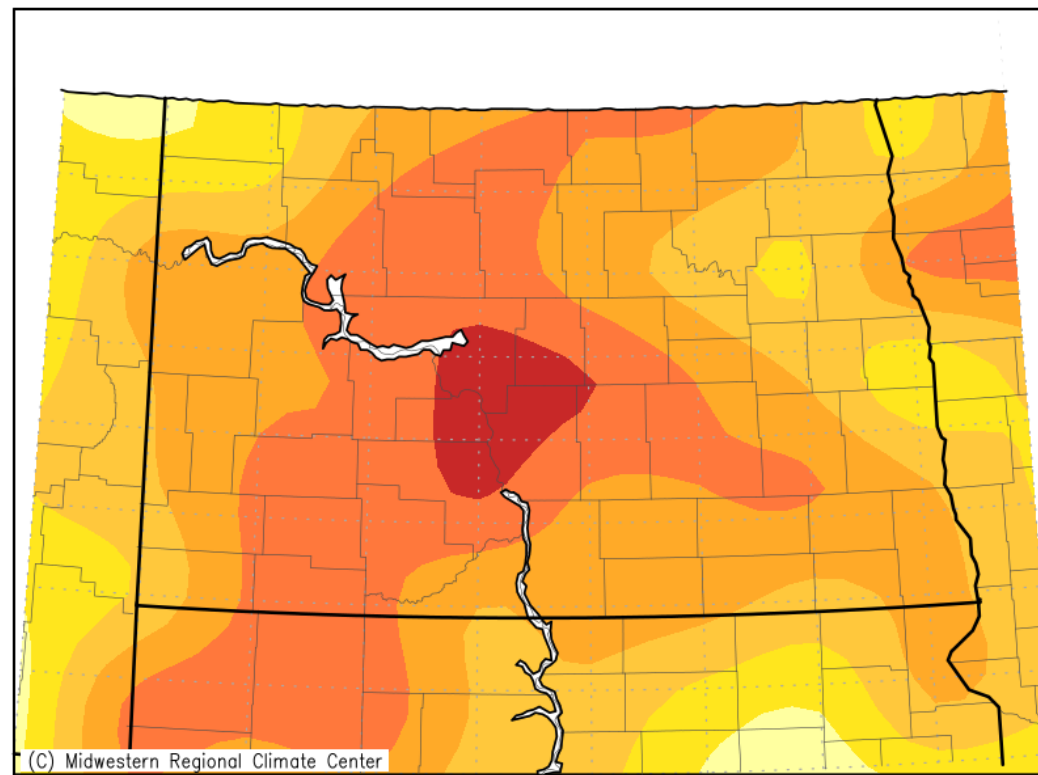
# ACCUMULATED SNOWFALL

## (Last Year: October 2020 – Present)

Accumulated Snowfall (in)  
October 1, 2020 to May 10, 2021



Accumulated Snowfall (in): Departure from Mean  
October 1, 2020 to May 10, 2021



Mean period is 1991–2020.



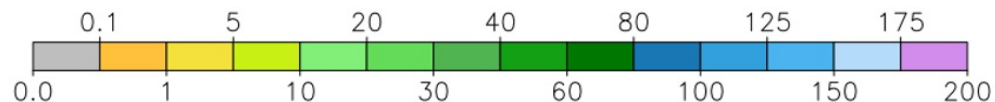
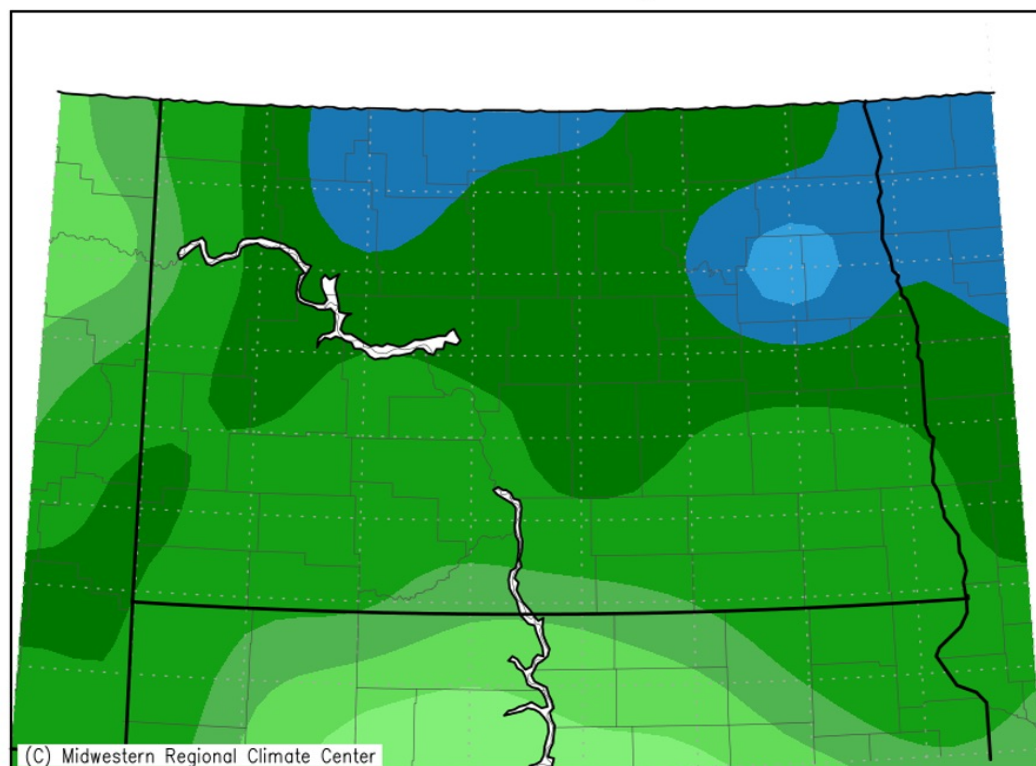




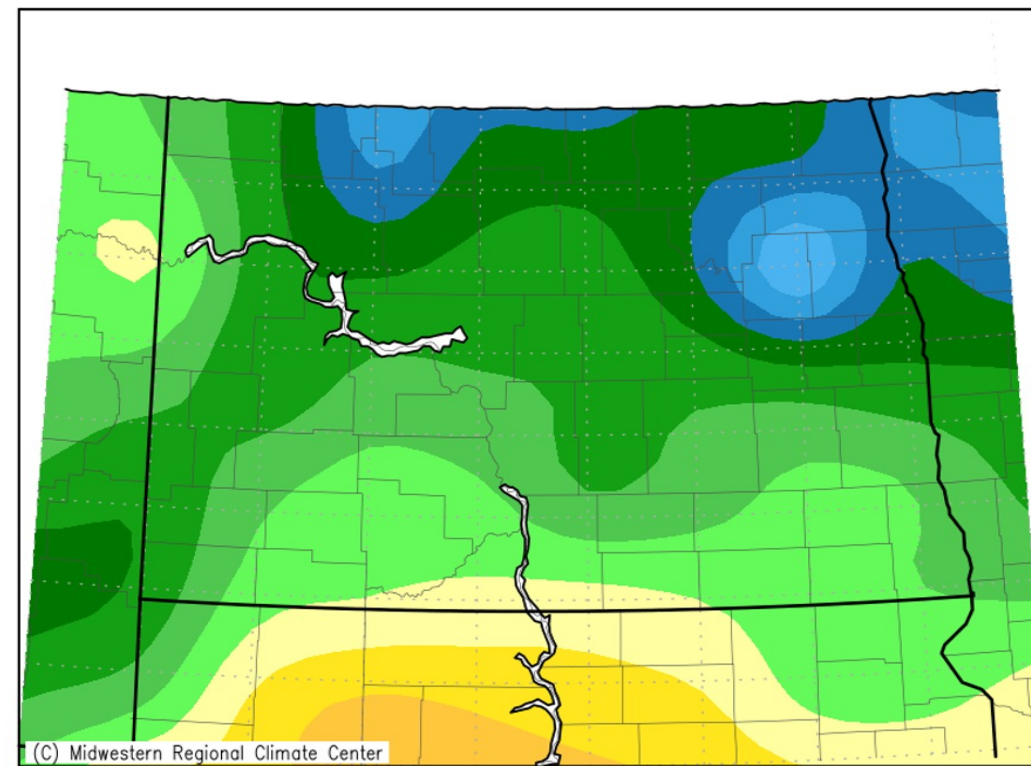
# ACCUMULATED SNOWFALL

## (This Year: October 2021 – Present)

Accumulated Snowfall (in)  
October 1, 2021 to May 10, 2022



Accumulated Snowfall (in): Departure from Mean  
October 1, 2021 to May 10, 2022



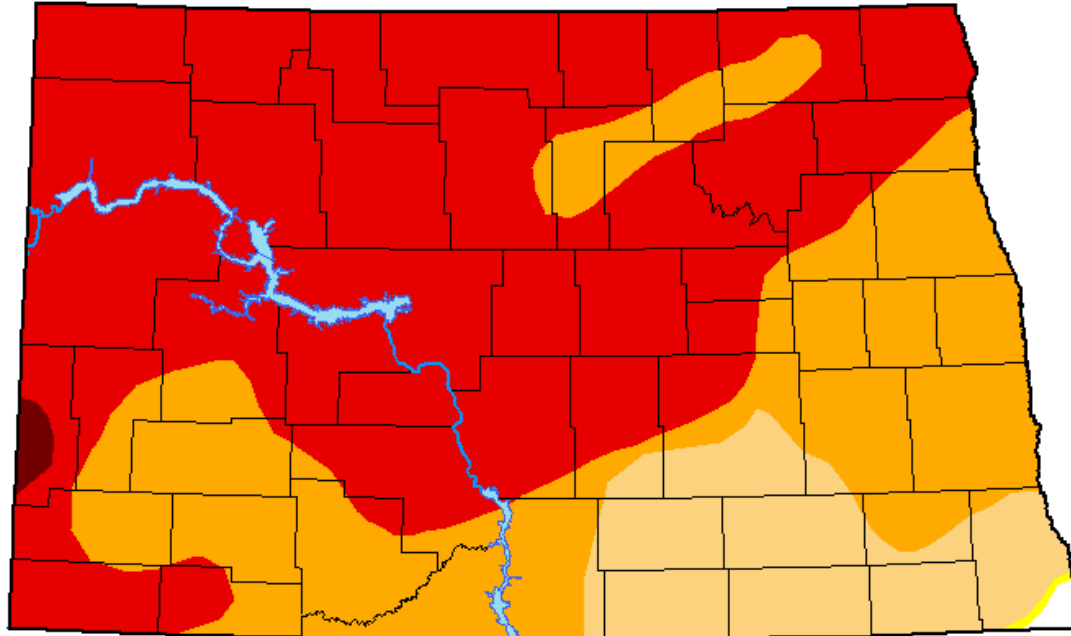
Mean period is 1991–2020.



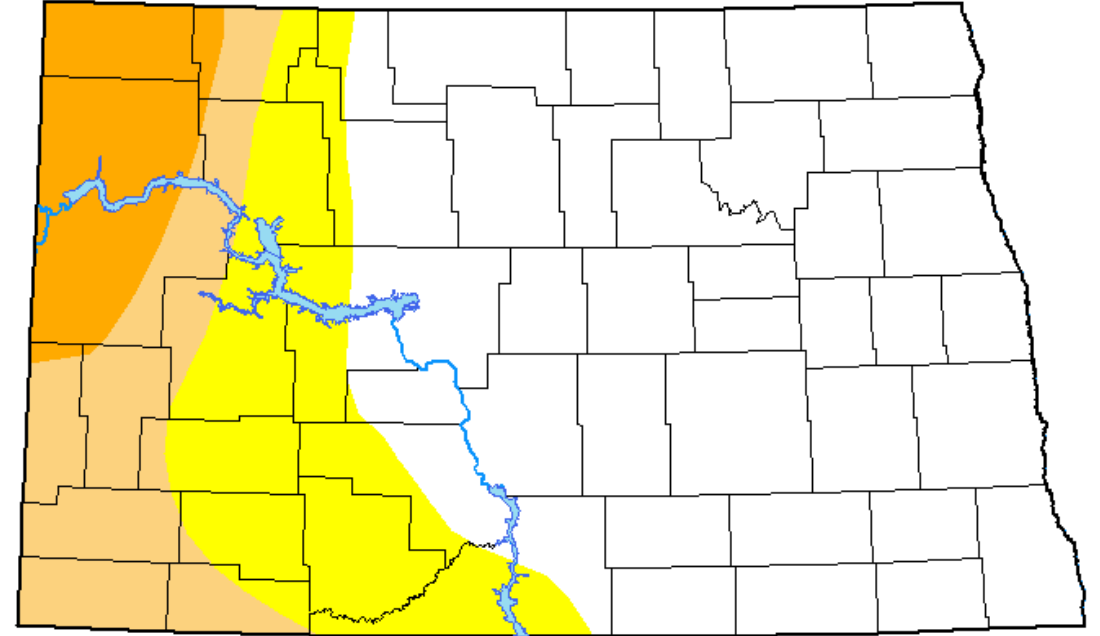


# U.S. DROUGHT MONITOR

October 5, 2021



May 3, 2022



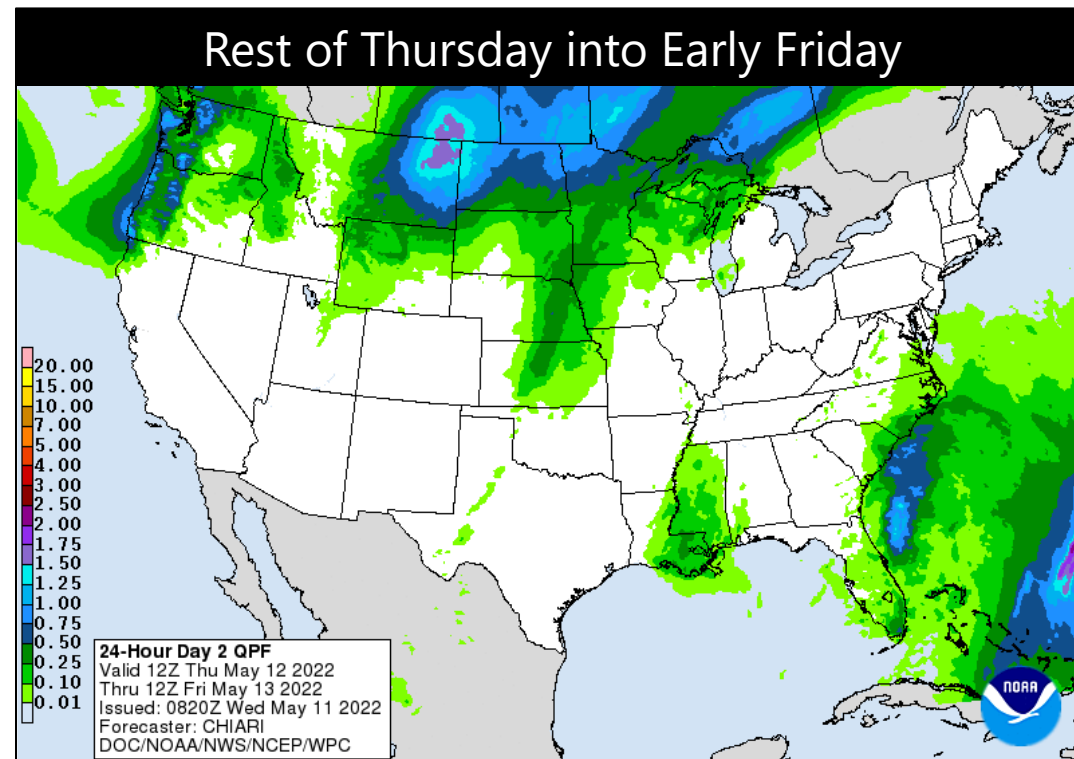
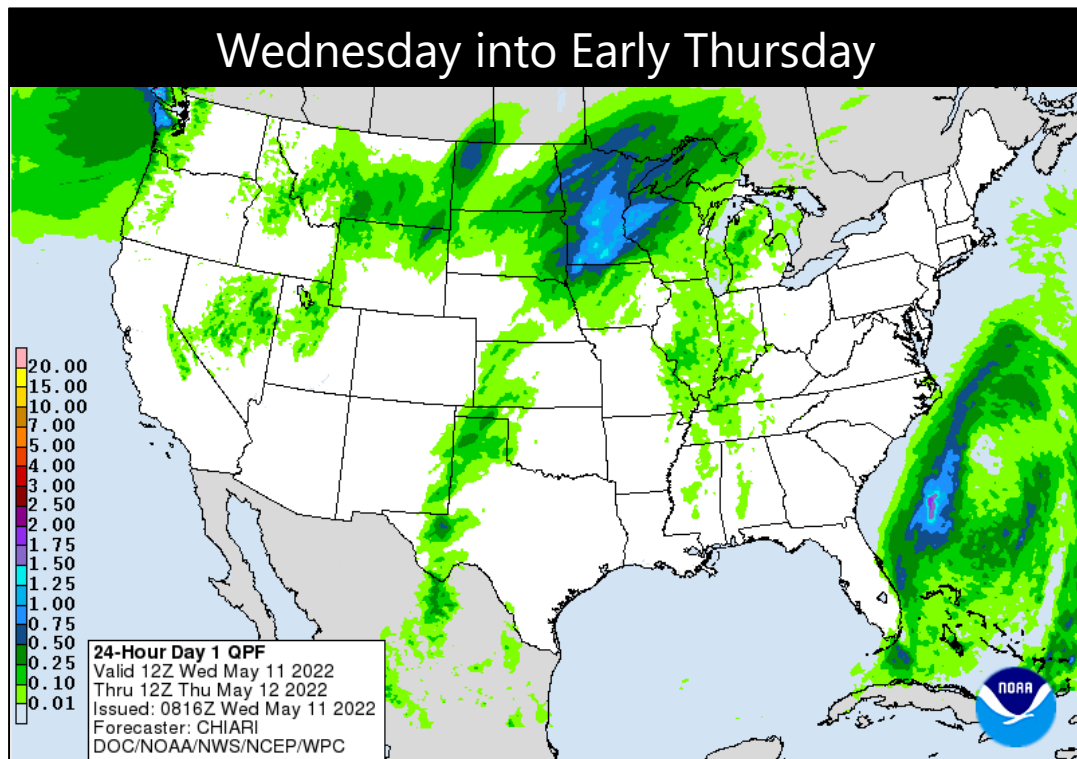
# OVERVIEW

- Fall and Winter Review
- Upcoming Forecast/Climate Outlooks
- Lake Outlook



# UPCOMING FORECAST

- Yet another strong storm system to impact the Northern Plains Wednesday and Thursday
  - Another shot of widespread precipitation is expected across the Devils Lake/Red River basins
  - Due to thunderstorm activity, amounts will likely vary (even across small distances)

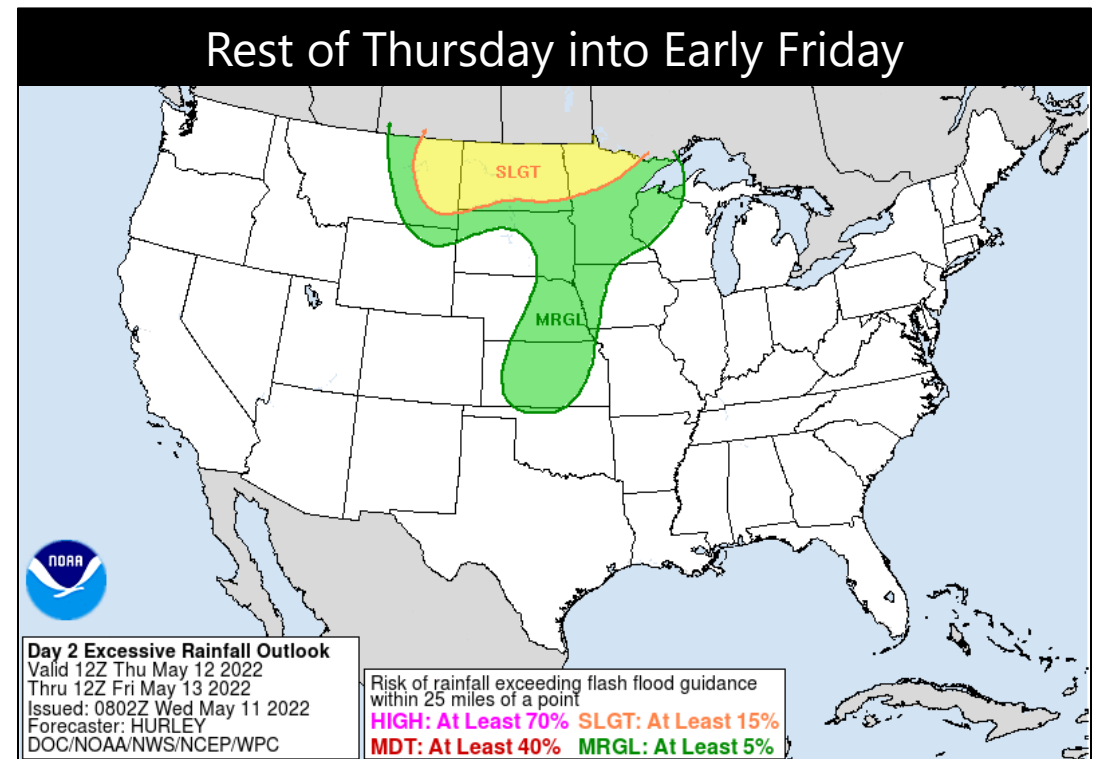
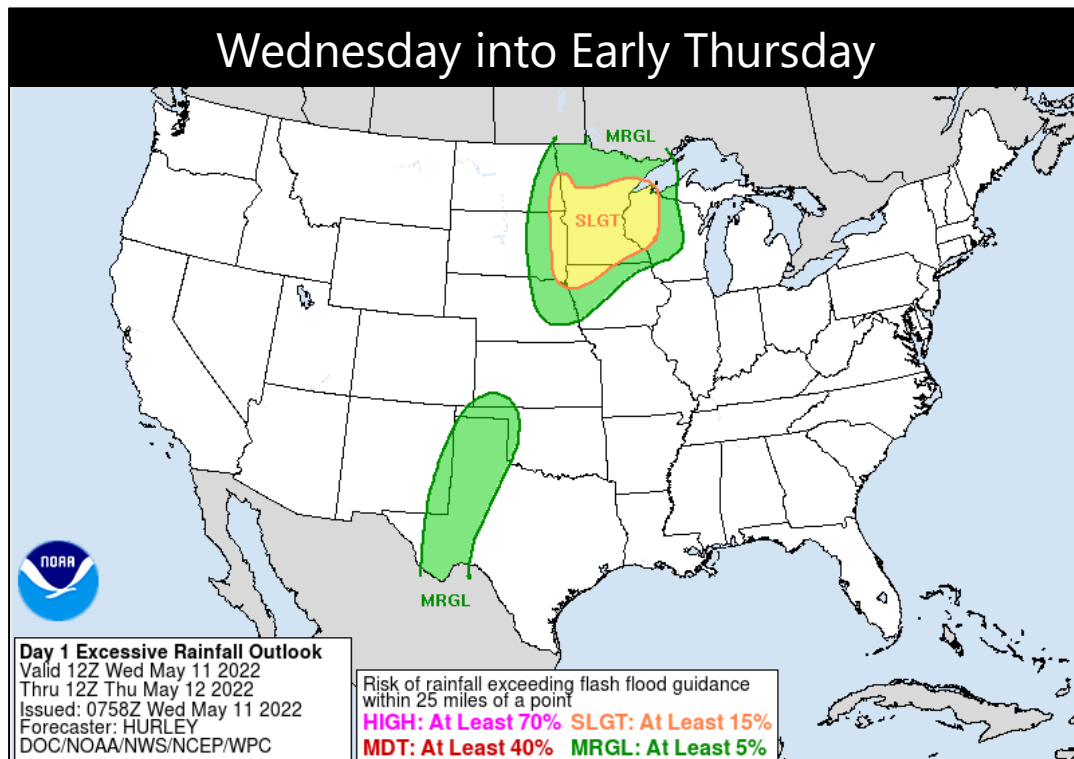


\* Forecast precipitation as of Wednesday morning



# UPCOMING FORECAST

- Once again, excessive rainfall chances highlight areas across the Devils Lake/Red River basins that don't need any additional rainfall
  - Overland/river flooding issues may be exacerbated in addition to taking longer to recede



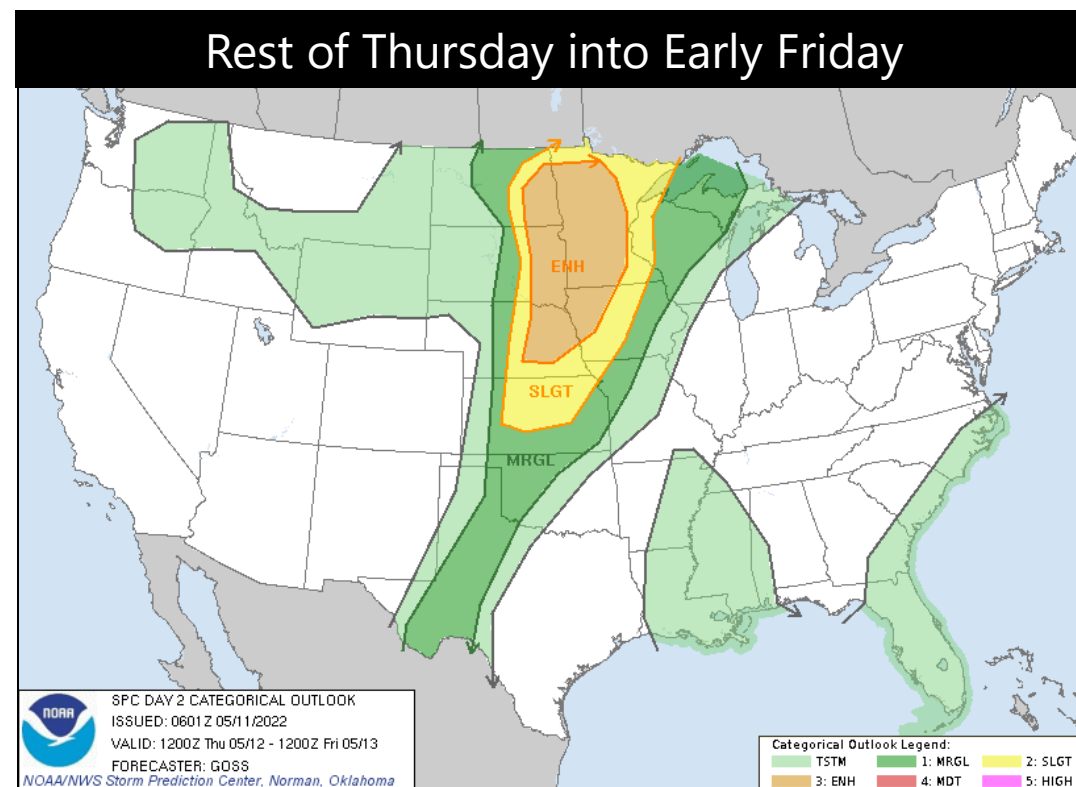
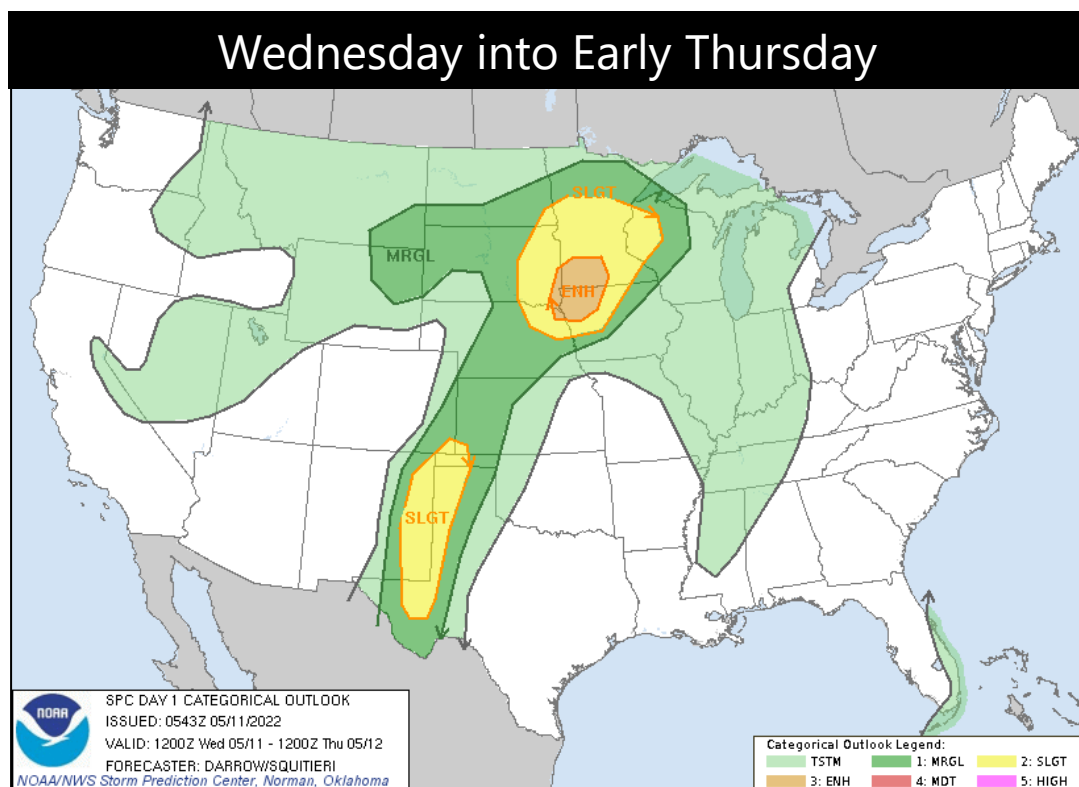
\* Excessive rainfall outlooks as of Wednesday morning





# UPCOMING FORECAST

- Severe weather threat is also heightened – mainly east of the Devils Lake basin at this time
  - Quite early in the year for this high of a threat in our area



\* Severe weather outlooks as of Wednesday morning



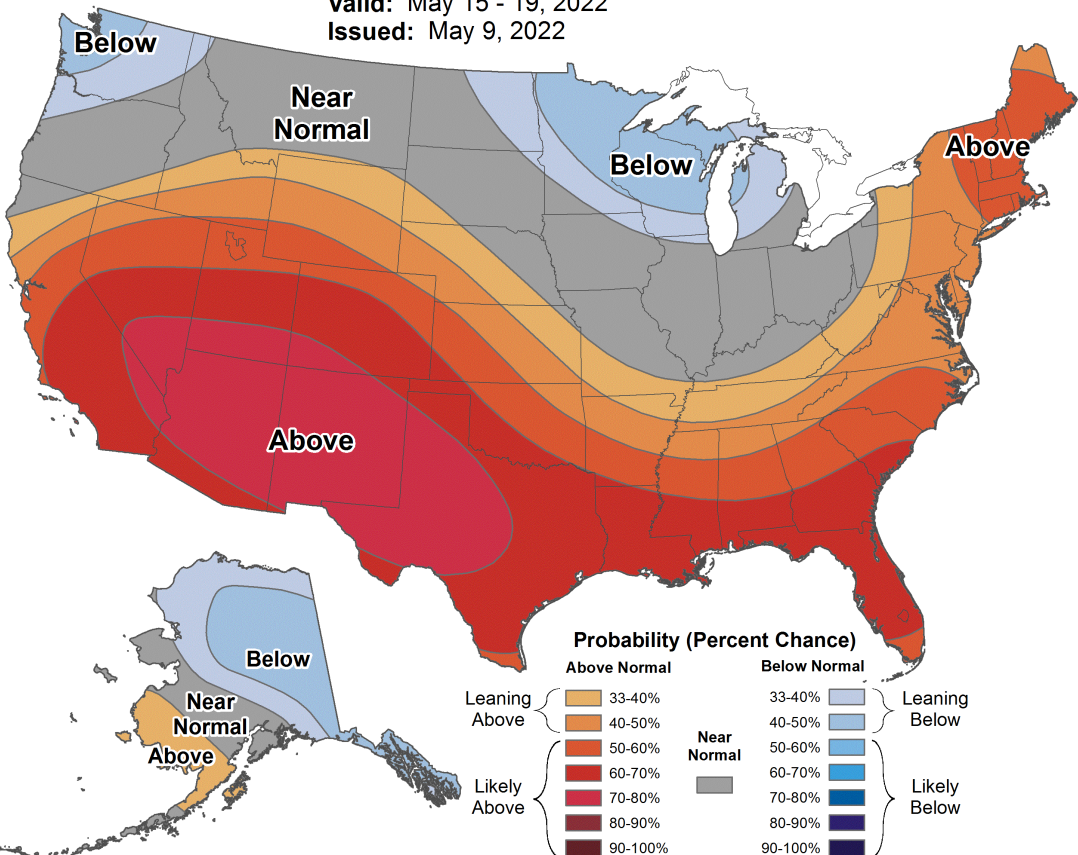
# 6-10 DAY OUTLOOK

## Temperature



### 6-10 Day Temperature Outlook

Valid: May 15 - 19, 2022  
Issued: May 9, 2022

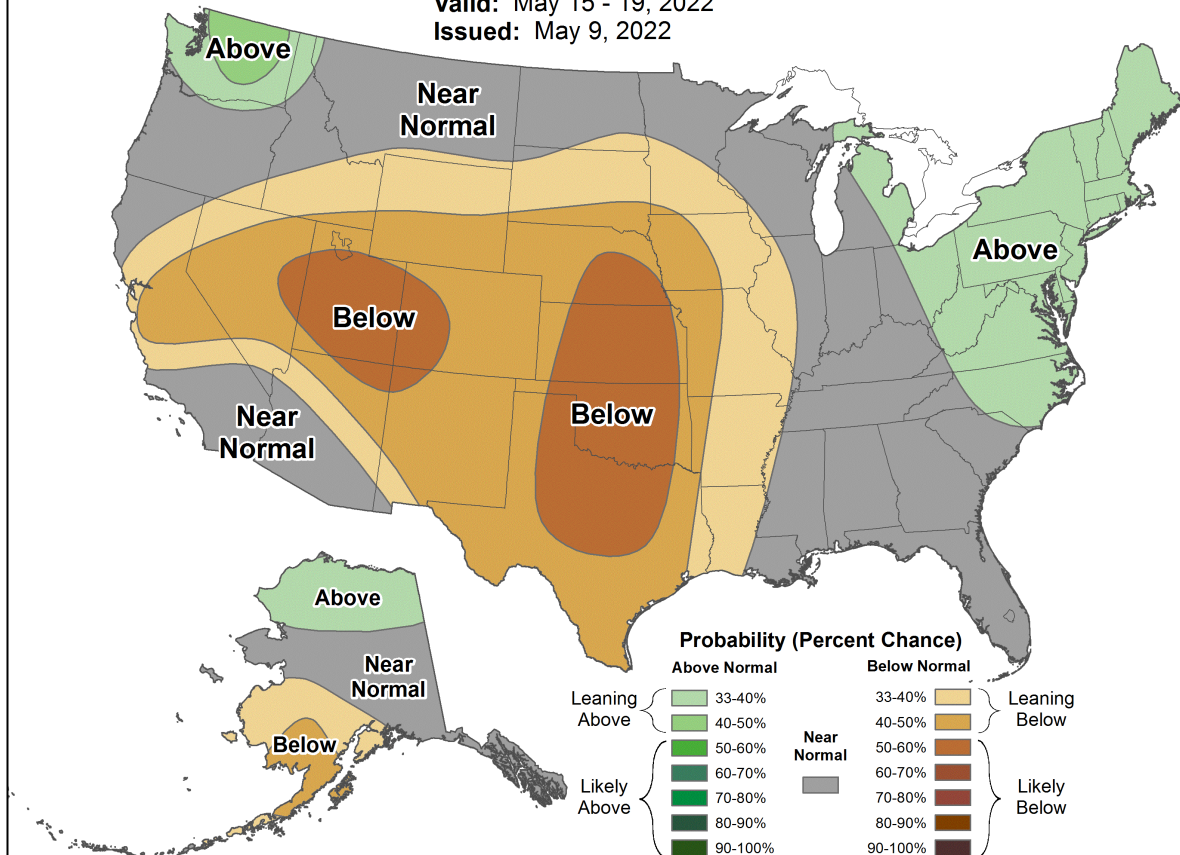


## Precipitation



### 6-10 Day Precipitation Outlook

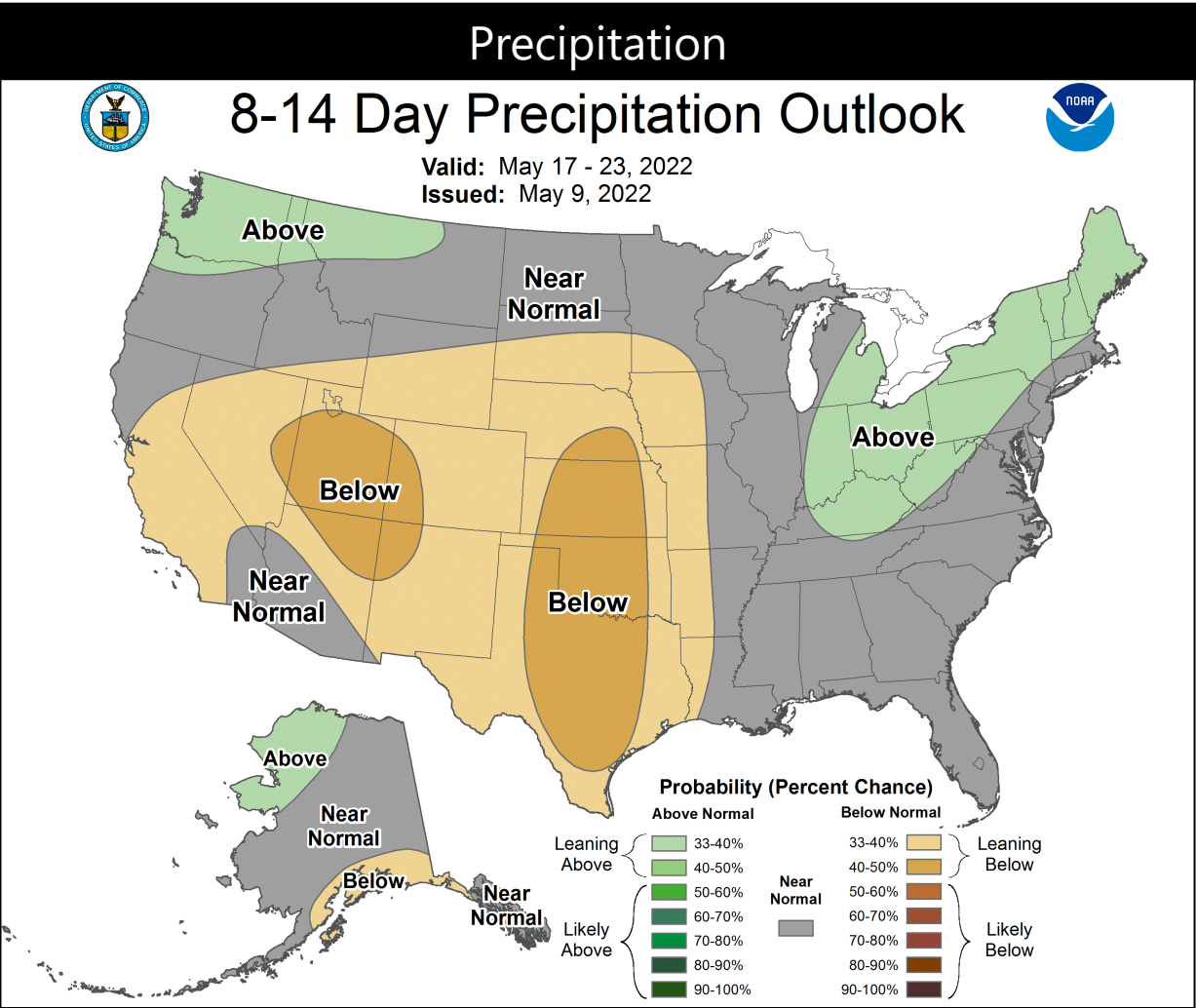
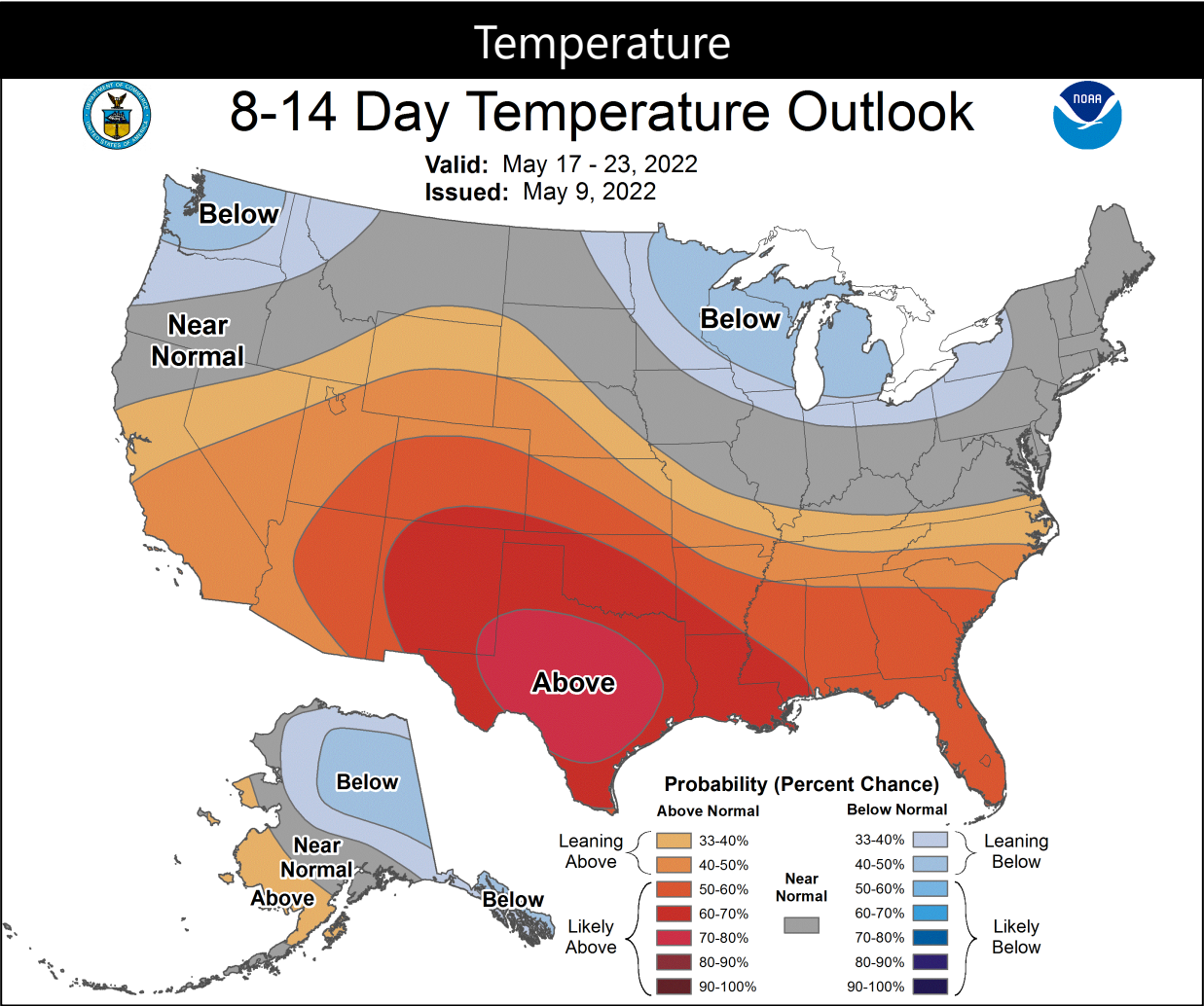
Valid: May 15 - 19, 2022  
Issued: May 9, 2022







# 8-14 DAY OUTLOOK





# 3-4 WEEK OUTLOOK

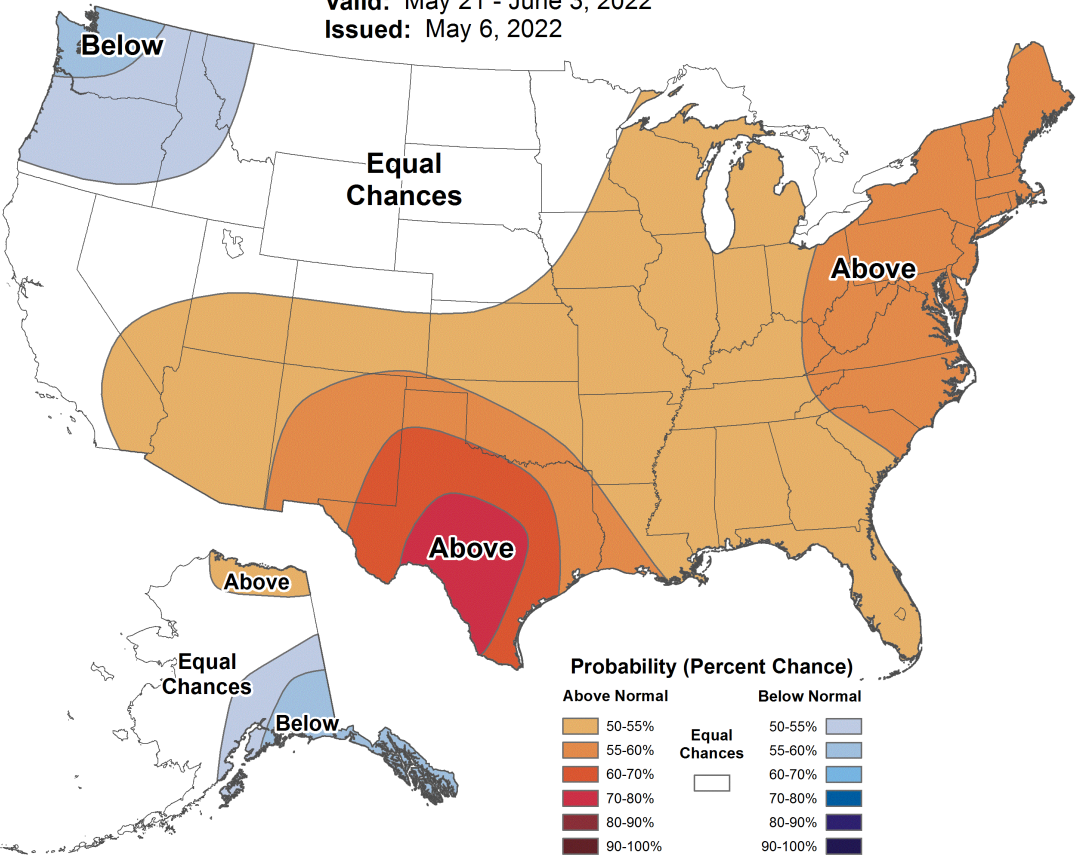
## Temperature



### Weeks 3-4 Temperature Outlook



Valid: May 21 - June 3, 2022  
Issued: May 6, 2022



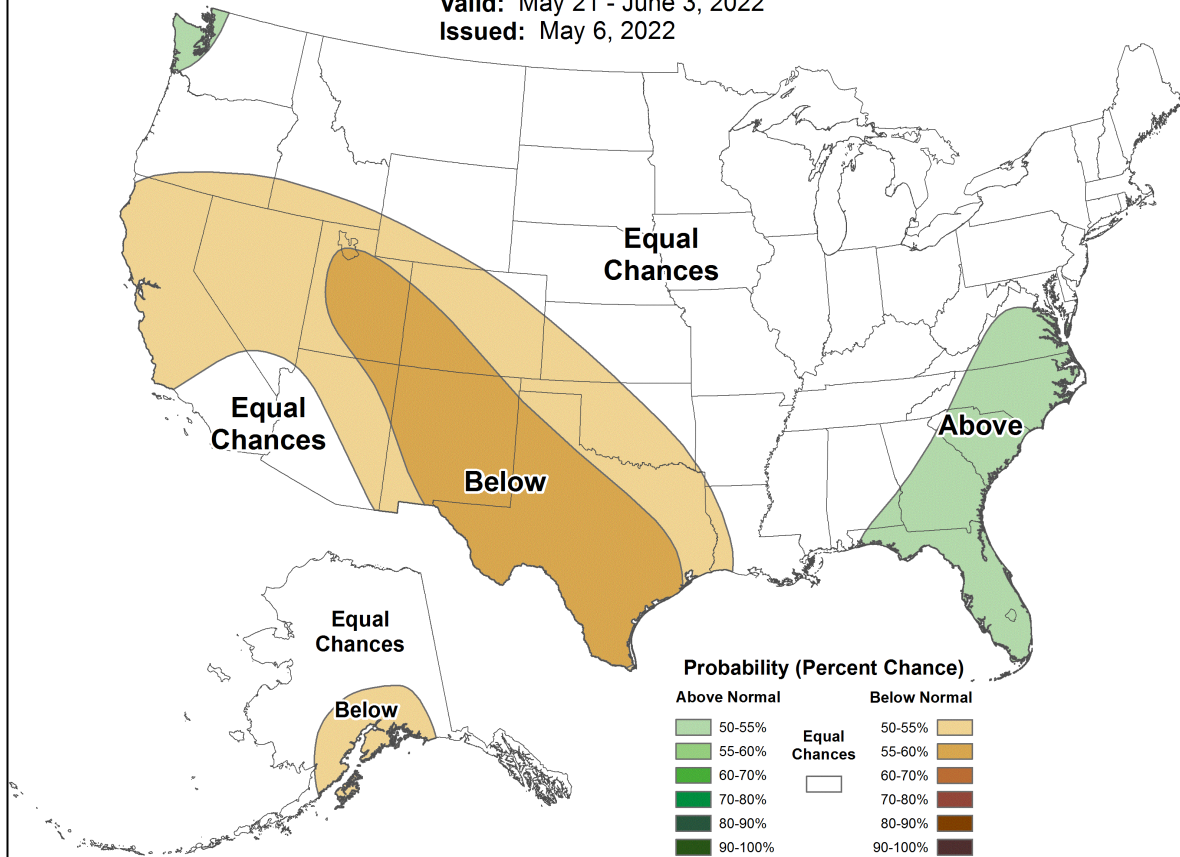
## Precipitation



### Weeks 3-4 Precipitation Outlook



Valid: May 21 - June 3, 2022  
Issued: May 6, 2022







# SUMMER OUTLOOK

(June, July, and August)

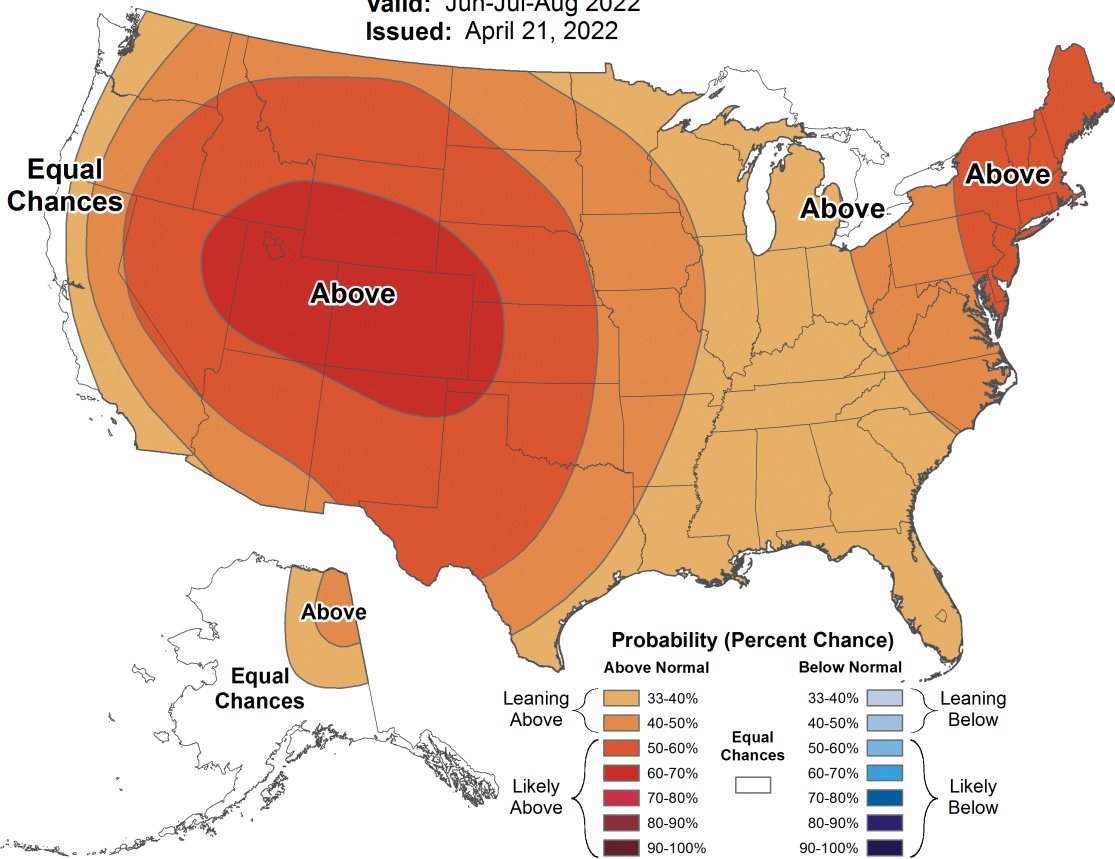
## Temperature



### Seasonal Temperature Outlook



Valid: Jun-Jul-Aug 2022  
Issued: April 21, 2022



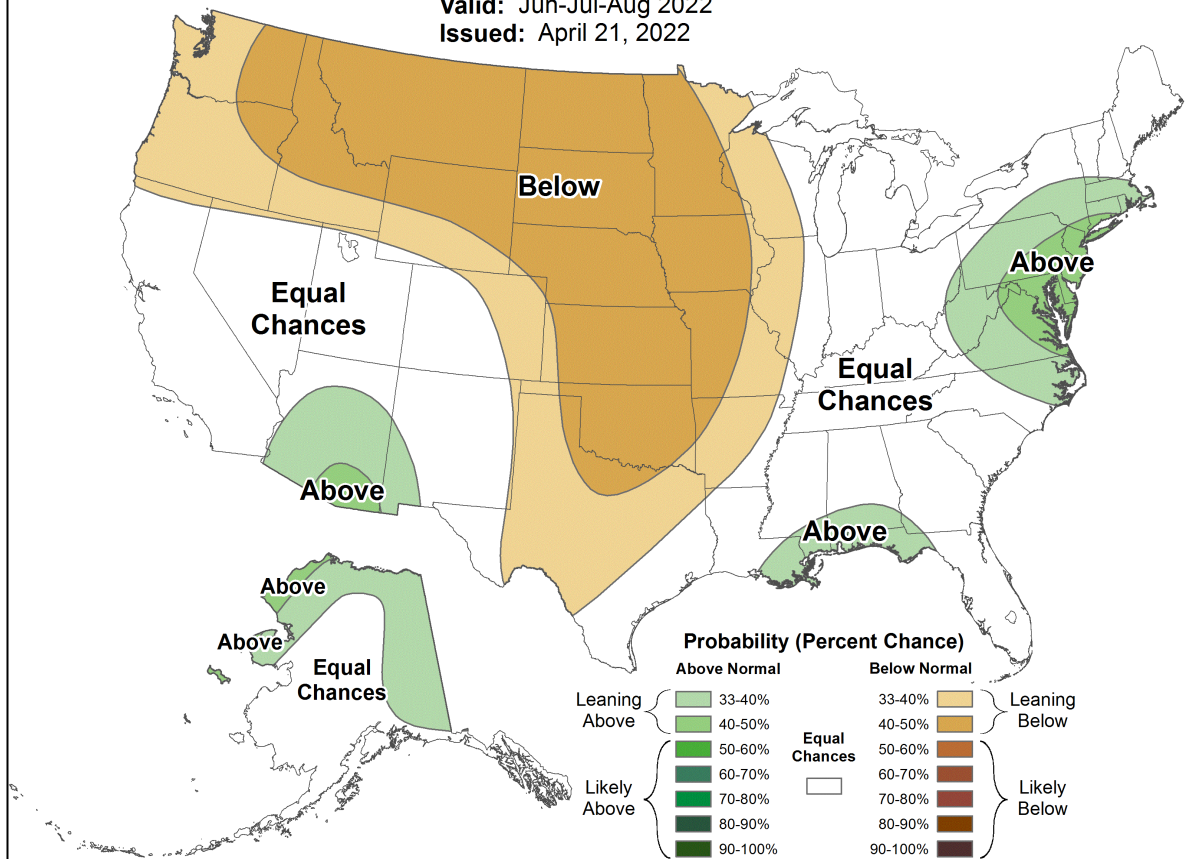
## Precipitation



### Seasonal Precipitation Outlook



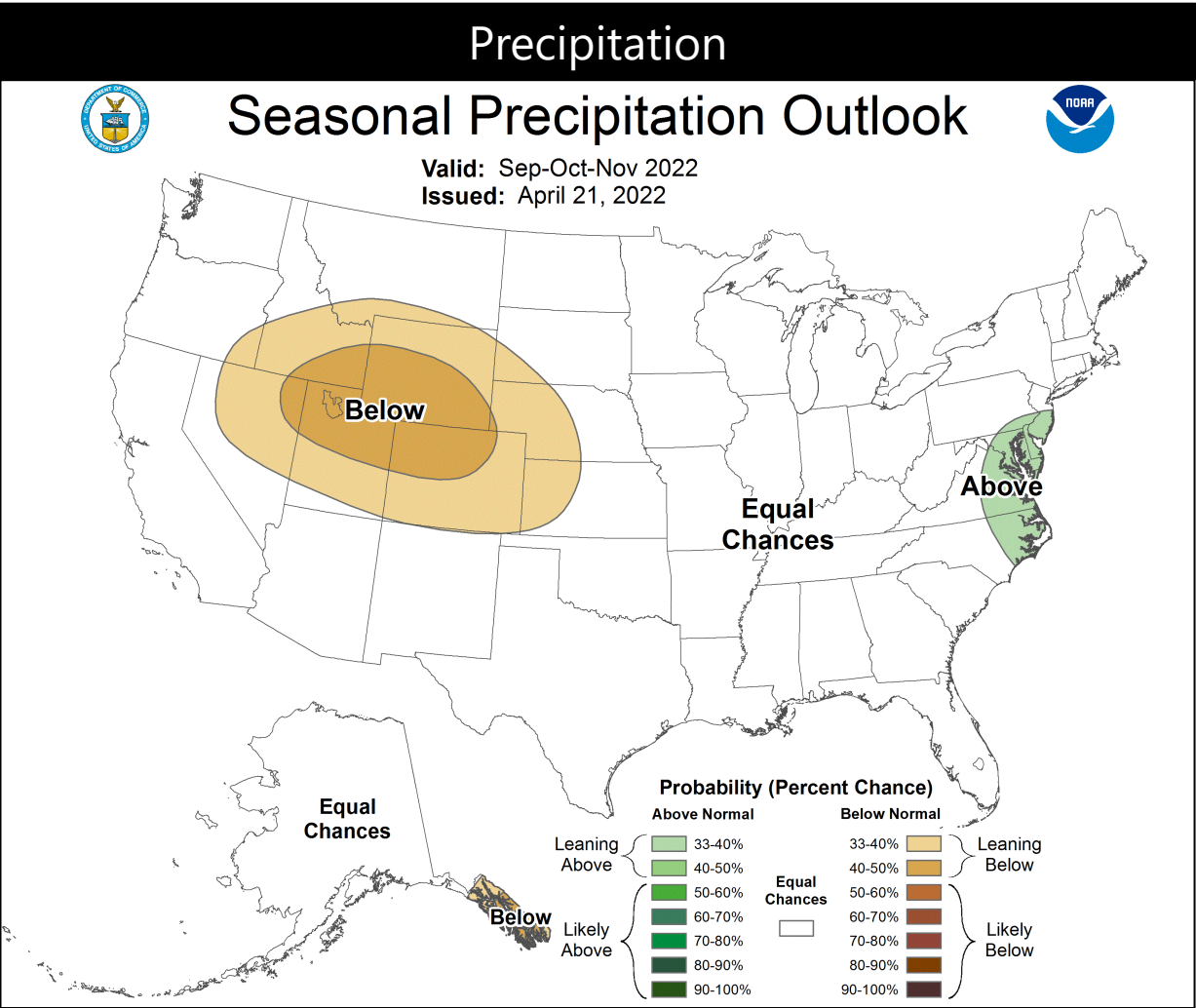
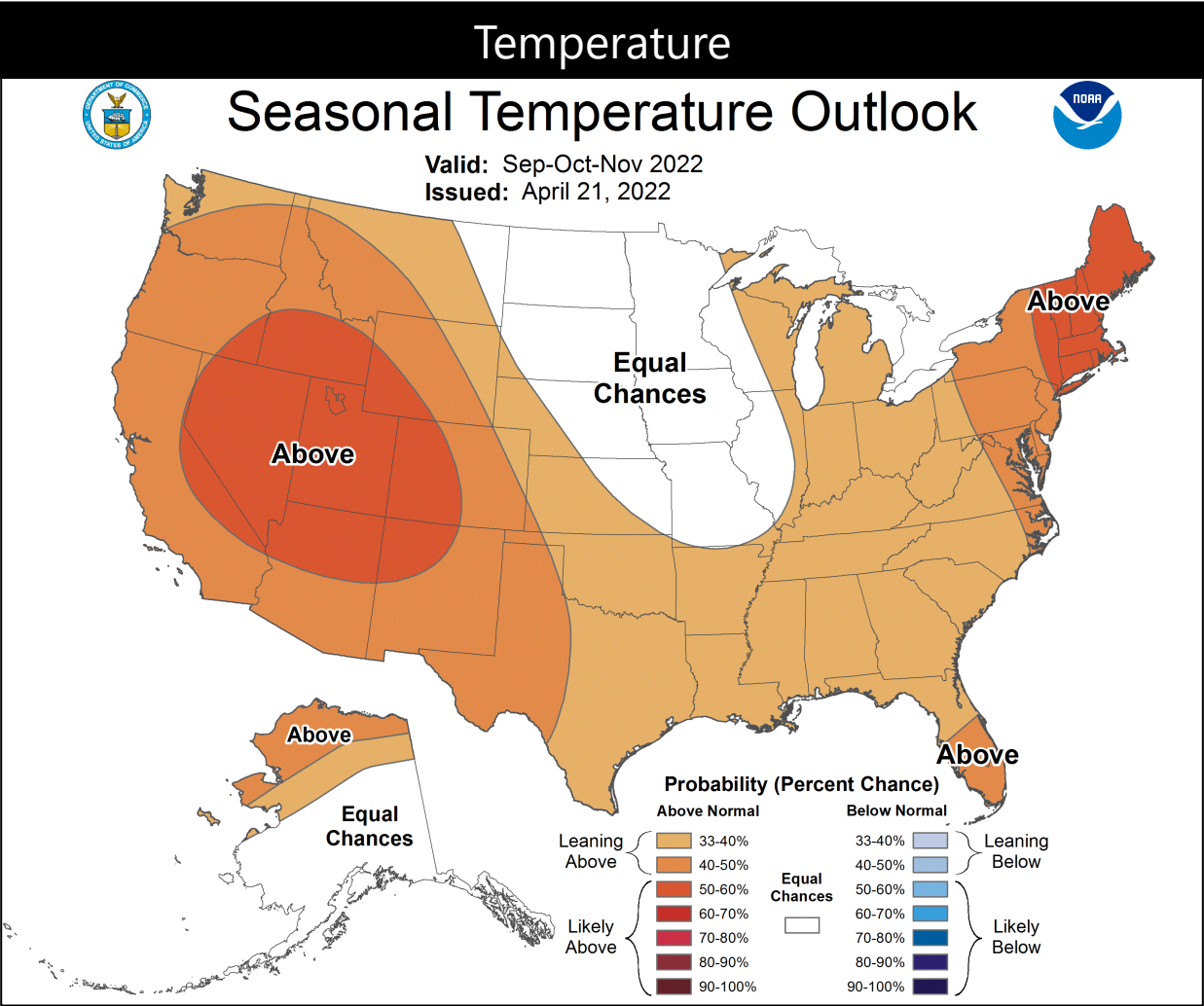
Valid: Jun-Jul-Aug 2022  
Issued: April 21, 2022





# FALL OUTLOOK

(September, October, and November)



# OVERVIEW

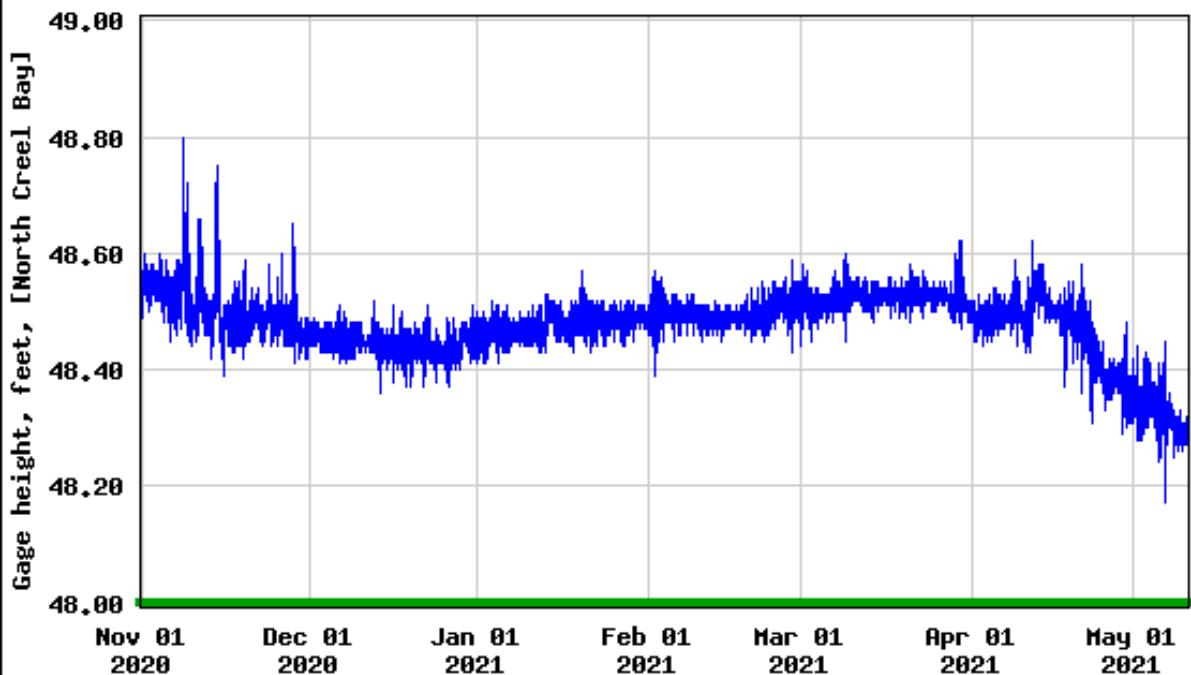
- Fall and Winter Review
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- Lake Outlook



# LAKE LEVELS

November 2020 - Current

USGS 05056500 DEVILS LAKE NR DEVILS LAKE, ND



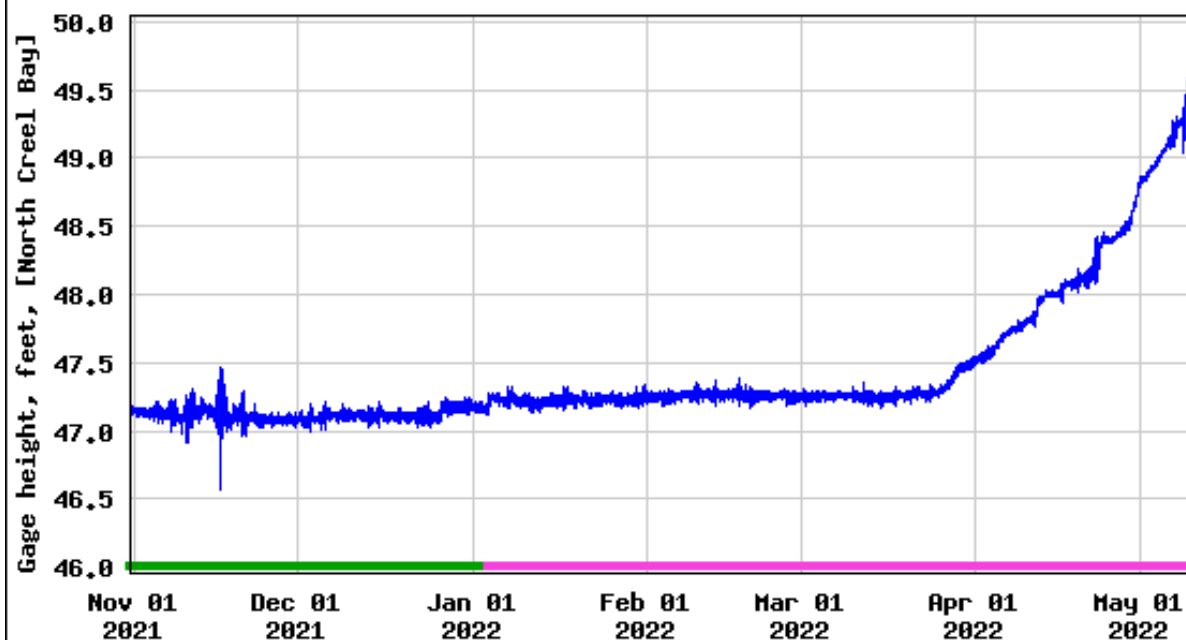
— Gage height

— Period of approved data

Graph courtesy of the U.S. Geological Survey

November 2021 - Current

USGS 05056500 DEVILS LAKE NR DEVILS LAKE, ND



— Gage height

— Period of provisional data

— Period of approved data

Graph courtesy of the U.S. Geological Survey





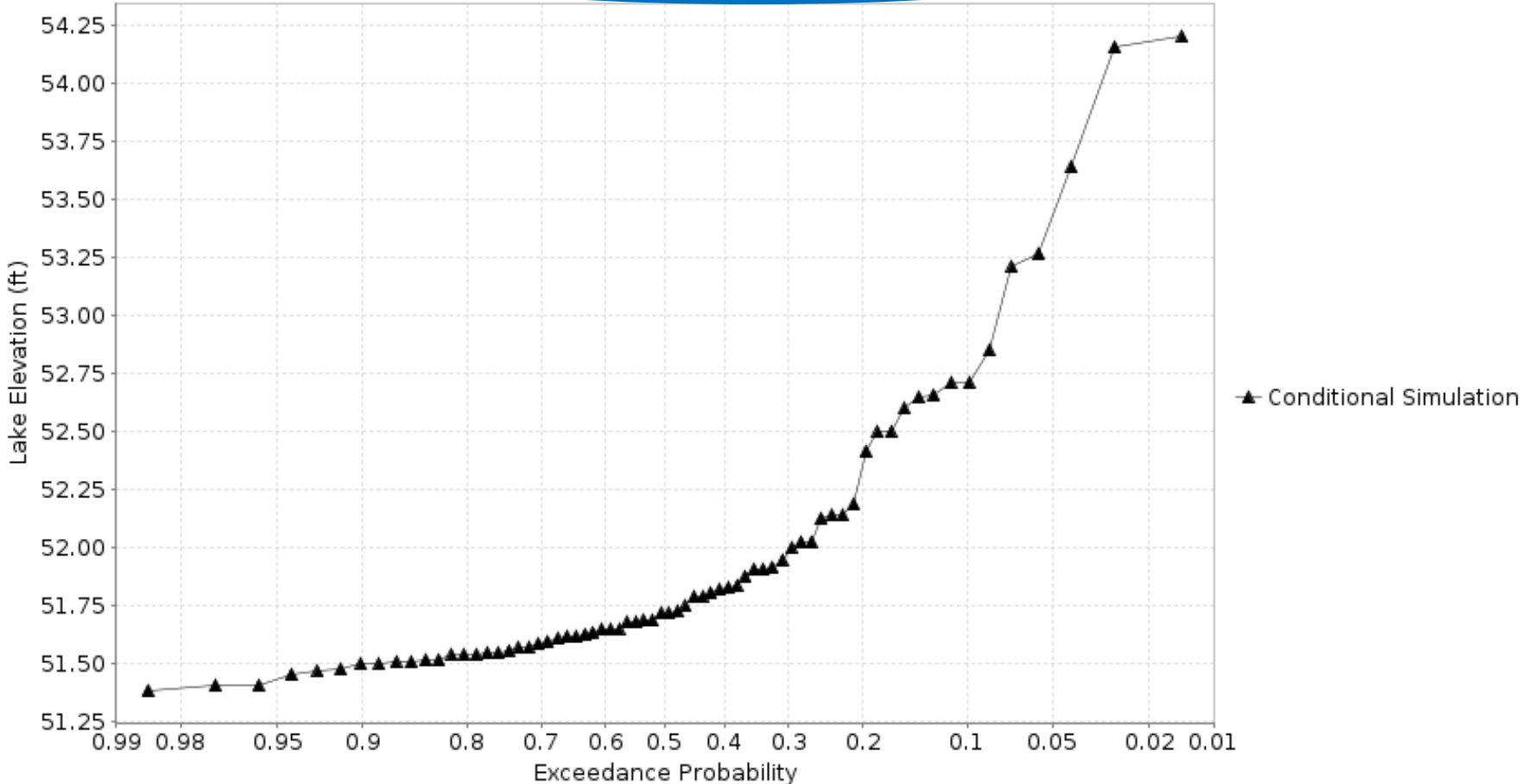
# OUTLOOK PROBABILITIES

- Outlooks currently incorporate 350 cfs from June to early November
- Can be adjusted for future outlooks depending on what the committee recommends, pumping plans, etc.



# OUTLOOK PROBABILITIES

Probability of Rising to High Lake Levels on the Devils Lake at Devils Lake 5SW-Creel Bay (DCBN8)  
Forecast for the period 04/25/2022 - 09/30/2022  
This is a conditional simulation based on the conditions as of 04/25/2022  
Pumping schedule : 350cfs Jun 1 - Nov 10



## Current Lake Level

Creel Bay  
1449.53 ft (5/11)

Stump Lake  
1449.16 ft (5/11)

## Next Outlook

Thursday,  
May 26, 2022

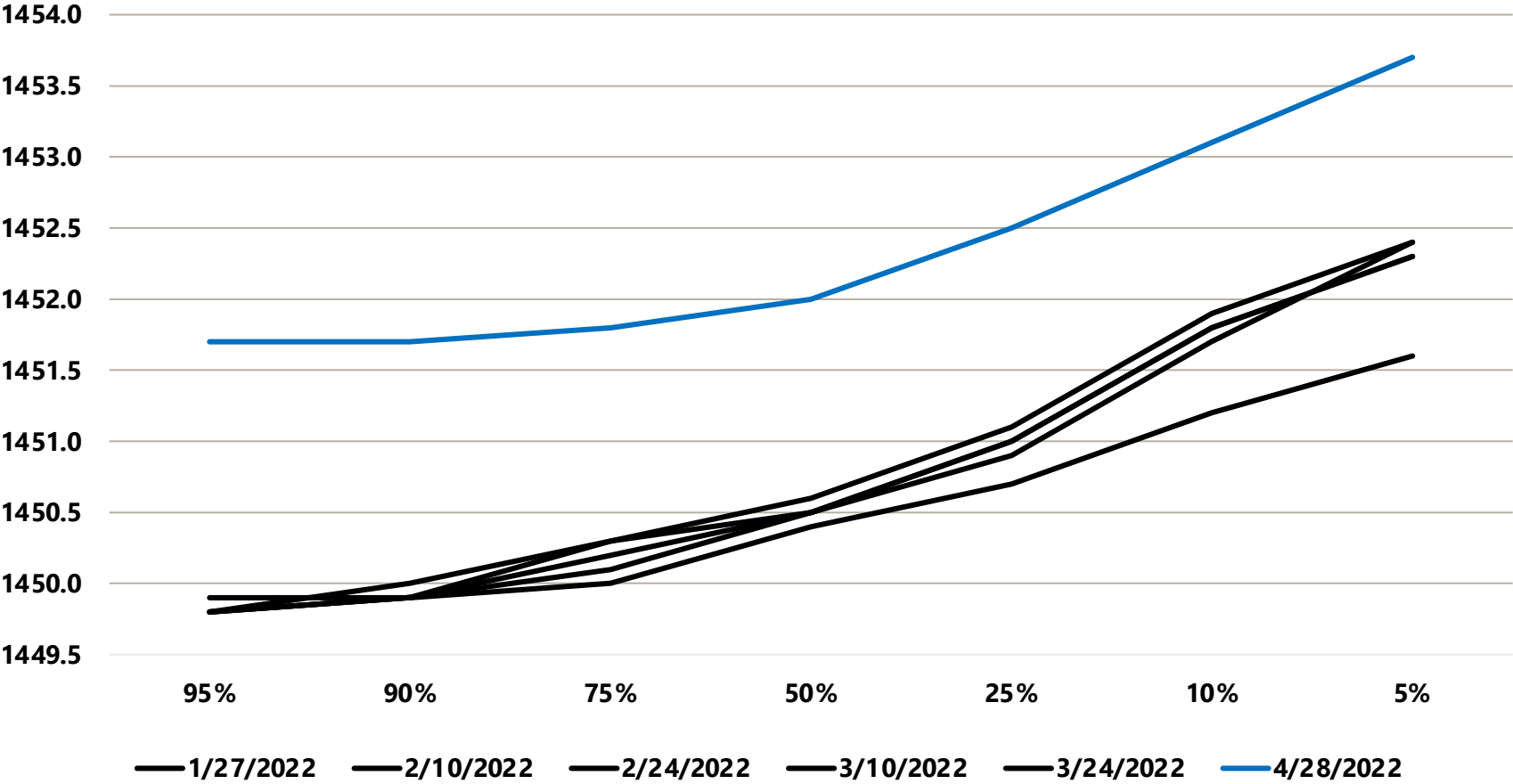
## First Non-Exceedance Outlook

Thursday,  
June 23, 2022



# OUTLOOK PROBABILITIES

2022 Devils Lake Outlooks



**Current Lake Level**

Creel Bay  
1449.53 ft (5/11)

Stump Lake  
1449.16 ft (5/11)

**Next Outlook**

Thursday,  
May 26, 2022

**First Non-Exceedance Outlook**

Thursday,  
June 23, 2022

# NATIONAL WEATHER SERVICE UPDATE

Amanda Lee  
NWS Grand Forks

